## We Claim:

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- 1. A method of operation in a hand-held electronic device comprising the following steps:
- 5 establishing a wireless connection in a wireless network;

requesting localized resources for at least one application installed on the handheld electronic device; and

receiving via the wireless connection at least one file that comprises at least some of the requested localized resources.

- 2. The method according to claim 1 wherein the hand-held electronic device requests localized resources in response to receiving an indication that the locale has changed.
  - 3. The method according to claim 2 wherein the indication is received via a user's input.
- 15 **4.** The method according to claim 1 wherein the hand-held electronic device requests localized resources in response to a user's input.
  - 5. The method according to claim 1 wherein at least one of the received one or more files includes one or more types of character fonts.
  - 6. The method according to claim 1 further comprising the following step:

    receiving via the wireless connection a list that comprises the received one or
    more files.
    - 7. The method according to claim 1 wherein the receiving step comprises receiving one or more files that collectively comprise localized resources for a plurality of applications installed on the hand-held electronic device.

- **8.** The method according to claim 7 wherein at least two of the plurality of applications are from different vendors.
- **9.** The method of claim 8 wherein the localized resources for the at least two of the plurality of applications from different vendors are stored on a common server on the wireless network.
- **10.** The method of claim 1 wherein at least one of the files includes localized resources for more than one locale.
- **11.** A method of operation in a wireless network that provides services for hand-held electronic devices comprising the following steps:
- providing a communication channel for use by a hand-held electronic device in establishing a wireless connection;

receiving a request for local resources from the hand-held electronic device; and transmitting to the hand-held electronic device at least one file that comprises localized resources for at least one application installed on the hand-held electronic device.

12. A method of operating a wireless network comprising the steps of: providing a communication channel for use by a hand-held electronic device in establishing a wireless connection; and

providing one or more files on a server or gateway for transmission over the wireless network to the hand-held electronic device wherein the one or more files include localized resources for one or more applications that are installed on the hand-held electronic device.

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- **13.** The method according to any of claims 11 or 12 wherein the one or more files include localized resources for more than one locale.
- **14.** The method according to any of claims 11 or 12 wherein the one or more files include one or more types of character fonts.
- 5 15. The method according to any of claims 11 or 12 wherein a plurality of the applications are installed on the hand-held electronic device and wherein at least two of the plurality of applications are from different vendors.
  - **16.** An article having a medium for storing computer-readable code that when executed by a computing platform results in:

downloading over a wireless network to a hand-held electronic device one or more files that include localized resources for one or more applications that are installed on the hand-held electronic device.

**17.** A method of operation in a hand-held electronic device that has an installed application, comprising:

loading a grouping of localized resources for a plurality of locations onto the hand-held electronic device for use with an installed application; and

accessing one of the localized resources when operating the installed application after a current locale is identified.

**18.** An article having a medium for storing computer-readable code that when executed by a computing platform results in:

accessing at least one local resource of a grouping of localized resources for a plurality of locations for an application by referring to a current locale, to the grouping and to an identifier of a particular resource of the application.

CLI-1129076v1 18

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**19.** A method comprising:

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storing localized versions of common resources for more than one locale on a hand-held device; and

providing code that causes the hand-held device to automatically replace occurrences of the common resources in an application installed on the hand-held electronic device with localized versions of the common resources for the current locale.

**20.** An article having a medium for storing computer-readable code that when executed by a computing platform results in:

automatically replacing occurrences of common resources in an application installed on a hand-held electronic device that does not support a current locale with localized versions of said common resources retrieved from a set of localized versions of said common resources for more than one locale.

- **21.** A method of operation in a wireless network that provides services for hand-held electronic devices comprising the following steps:
- providing a communication channel for use by a hand-held electronic device in establishing a wireless connection;

pushing updates of an AutoText database over the wireless network to a handheld electronic device, wherein the AutoText database includes industry-specific terminology.

20 **22.** A method of operation for a hand-held electronic device whose operation in some circumstances is based on its current locale, the method comprising:

identifying a character sequence entered by a user of the hand-held electronic device that matches a predetermined sequence associated with the current locale of the hand-held device;

choosing an article for use with a word that is entered by the user after the character sequence is entered, wherein the article is grammatically correct for the language associated with the current locale; and

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automatically replacing the character sequence with the article.

**23.** A method of operation for a hand-held electronic device whose operation in some circumstances is based on its current locale, the method comprising:

determining that the usage of an article associated with a word is grammatically incorrect in the current locale of the hand-held device after a user of the hand-held electronic device enters a sequence of characters that includes the article and the word; and

automatically replacing the incorrectly used article with a grammatically correct article for the current locale.

**24.** A method of operation for a hand-held electronic device whose operation in some circumstances is based on its current locale, the method comprising:

when a first locale is a current locale of said hand-held electronic device, automatically replacing a quote character entered by a user of a hand-held electronic device that is preceded by an empty or white space with a first open-quote character for said first locale; and

when a second locale different from said first locale is the current locale of said hand-held electronic device, automatically replacing a quote character entered by a

user of said hand-held electronic device that is preceded by an empty or white space with a second open-quote character for said second locale that is different from said first open-quote character.

- 25. A method of developing applications for electronic devices comprising: generating a code value for an original language string that is related to a resource of a software application that is used with an electronic device; translating the original language string into another language; and storing the code value with the translated string.
  - **26.** The method of claim 25 wherein the code value is a hash code value.
- 10 **27.** A method for verifying a translated string comprising:

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generating a code value for an original language string that is related to a resource of a software application that is used with an electronic device; and

comparing the generated code value to a second code value that is stored with a translated string to determine if the translated string is a translation of the original language string.

**28.** A method for developing resources for use with a software application for handheld devices, the method comprising:

generating localized resource information for a software application; listing in a first file keys for the localized resource information;

listing in a second file the keys and the localized resource values associated with the keys;

associating the first file with the second file so that the two files can be analyzed to validate the localized resource information.

- **29.** The method of claim 28 further comprising validating the localized resource information by checking the two files for missing resources.
- **30.** The method of claim 28 further comprising validating the localized resource information by checking the two files for empty resources.
- 5 **31.** The method of claim 28 further comprising validating the localized resource information by checking the two files for undeclared resources.
  - **32.** The method of claim 28 further comprising validating the localized resource information by checking for resources that need an updated translation.
  - 33. The method of claim 28 further comprising validating the localized resource information by determining whether an original resource value and a corresponding localized resource value have the same format.
  - **34.** The method of claim 28 further comprising validating the localized resource information by determining whether a display width of a resource exceeds a predefined display width of a screen of the hand-held electronic device.
- 15 **35.** The method of claim 28 further comprising validating the localized resource information by determining whether, in a particular locale, a hotkey for a software application of the hand-held electronic device is assigned to more than one function.
  - **36.** A method for developing resources for use with a software application for handheld devices, the method comprising:
  - generating a collection of localized resource information based on a first branch of code of a software application for a hand-held electronic device; and copying the collection to a second branch of code of the software application.
  - **37.** The method of claim 36, further comprising:

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generating in the second branch one or more files comprising localized resources for the second branch from the copied collection .

- 38. The method of claim 36, further comprising:
  updating from the copied collection one or more files comprising localized resources for said second branch.
- **39.** A method of preparing a string for display on a hand-held electronic device, comprising:

identifying a text attribute to be applied to a string;

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selecting one of a predefined set of string options that are related to the identified

attribute wherein each string option is specific to a locale; and

displaying the string with the selected string option applied.